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American Foundryman

A PUBLICATION PRESENTING ASSOCIATION AND DISTRICT ACTIVITIES



For Technical Committee, see page 10. For News and
Page 1. For General Committee, see page 2. For News and
News and Machinery, see page 3. For News and Machinery, see page 4.

July
1938

Your President's Message



*D*URING the past year it has been my privilege to contact many of our chapters and their work has impressed me with the fact that the American Foundrymen's Association is a militant force, working, not only for the advancement of the art of founding, but also strongly militant for sane citizenship.

This is as it should be. One cannot participate in a worthy cause without giving, consciously or unconsciously, something of the fineness of ones own nature. Happily, we get the most out of membership by being an active member, contributing from the vast store of our own knowledge and experience.

Progress of the modern world daily presents problems and demands for new methods or technique. To meet these conditions, ideas are created which often fall considerably short of the considered ideal. To our foundry industry some of these changes have brought keen competition and loss of business. This should spur us to an intensive study of these problems and to foster a campaign to regain what is rightfully ours.

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+

Headquarters

Room 1248, 222 West Adams St., Chicago, Ill.

*The president, vice president and directors are elected by the members at annual meetings of the Association held at conventions. All other staff officers are elected by the Board of Directors at the annual Board meeting. The annual board meeting held this year on July 26, too late for publication of staff officers in this issue. The list, therefore, will appear in the August number.

American Foundryman



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American Foundryman

WITH this, the first issue of *American Foundryman*, the American Foundrymen's Association resumes, with some variations, the publication policy authorized by the Board of Directors in 1930. At that time, the Board made provision for the issuance of a monthly publication entitled "Transactions of the American Foundrymen's Association" which was to include news items on Association activities and sections of Transactions of annual conventions. In addition, provision also was made for the issuance of Transactions in bound form. The former was to be made available to all members and the latter only on payment of a nominal fee to cover binding. The latter also was to be issued to general firm members gratis.

New Publication Policy

This policy was in effect during 1930 and 1931. During the latter year, it was decided to issue the publication bi-monthly instead of monthly, due to economic conditions prevailing.

The new publication policy is a slight variation of the 1930 policy and provides for the issuance of a monthly publication plus four issues of *Transactions* to all members of the Association, bound volume Transactions to be issued under the same conditions as previously.

This action by the Board of Directors brought into being the monthly publication *American Foundryman*, of which this is the initial issue, for the purpose of presenting to members more frequent and timely news of the Association, its chapters and committee activities.

While Association and chapter news will be carried in *American Foundryman*, the proceedings of the annual conventions, as previously noted, will be issued each year in four numbers in the same page size and general form as has been used in the former bi-monthly *Transactions*. The volume number of the quarterly *Transactions* will be changed to conform to numbering system used for annual bound volumes of *Transactions*. Hence, the first issue of the proceedings of the 1938 Cleveland convention will be listed as *Transactions*, vol. 46, no. 1. *American Foundryman* begins with vol. 1, no. 1. The bound volume will be continued as in the past.

Reasons for Change

This change in publication policy was approved by the Board of Directors because it was felt that this would best serve the interests of members, especially since the increasing activities of the chapters has created the need of a more frequent means of reporting chapter and regional meetings and presenting advance notice of meetings to come. With the increasing growth of the Association and its many technical committees, the need also has been felt for a better medium for reporting their activities and for keeping the mem-

bers informed of committee findings at more frequent intervals than is possible through the reports made at the annual conventions.

American Foundryman will carry some sections such as those on Safety, Hygiene, Apprentice Training, New Members, Chapter Directory, Regional Meetings and Foundry Abstracts, as will be seen from this first issue. These sections are headed by special cuts, making for ease in locating the material desired.

The Association office would appreciate comment from members as to how *American Foundryman* can best serve them.

Three Conferences Scheduled for October

BEGINNING with the Fall Technical Conference at Ann Arbor, Mich., Sept. 15-17, members of the Association in several sections of the country will have an opportunity to participate in special foundry conferences sponsored by chapters. Committees have been active in developing programs that will bring together prominent men of the industry to present their views on various current practices.

Of these fall meetings, that at the University of Michigan will be the second strictly technical conference, presenting discussions on the more highly metallurgical phases of foundry practice. See page 4 for the tentative program.

Other meetings, in addition to the regular chapter meetings, will be the two-day foundry conferences for the shop operator. Of these, three have been scheduled so far for October. These are:

A Meeting in the Ozarks

Second Annual Conference, Rolla, Missouri, sponsored by the St. Louis Chapter in cooperation with the Missouri School of Mines and Metallurgy. See page 5 for program.

Out Where the Tall Corn Grows

Third Annual Conference, Iowa City, sponsored by the Quad City Chapter and State University of Iowa, with Northern Illinois and Southern Wisconsin Chapter and Northern Iowa Foundrymen's Association cooperating. See page 6 for program.

Bully for Old Purdue

First Annual Meeting, Lafayette, Ind., sponsored by the Chicago Chapter and Purdue University. See page 7 for program.

These meetings, wherever held, have proved very popular and serve several purposes, bringing together foundrymen, promoting acquaintanceship and discussion of current foundry practices, promoting a better understanding between the engineering staffs and students and the foundrymen of the district, and furthering a better under-

standing of the utility of modern cast products by the engineering student.

Other meetings, which have become annual institutions, are those held each February at Birmingham, Ala., as sponsored by the Birmingham Chapters of A.F.A. and A.S.M.E.; at East Lansing, Mich., each spring as sponsored by the Detroit Chapter and Michigan State College; at Milwaukee as sponsored by the Wisconsin Chapter and the University of Wisconsin; at Cambridge, Mass., as sponsored by the New England Foundrymen's Association and Massachusetts Institute of Technology, and that at Cornell University, Ithaca, N. Y., a meeting sponsored by the Buffalo Chapter, Syracuse and Rochester members, and the University.

kee as sponsored by the Wisconsin Chapter and the University of Wisconsin; at Cambridge, Mass., as sponsored by the New England Foundrymen's Association and Massachusetts Institute of Technology, and that at Cornell University, Ithaca, N. Y., a meeting sponsored by the Buffalo Chapter, Syracuse and Rochester members, and the University.

New Chairmen to Head Gray Iron and Non-Ferrous Divisions

GARNETT P. PHILLIPS, International Harvester Co., Chicago, recently was appointed chairman and W. H. Spencer, Sealed Power Corp., Muskegon, Mich., vice chairman, of the Gray Iron Division of A.F.A., and Harold J. Roast, Canadian Bronze Co., Ltd., Montreal, was elected chairman and W. J. Laird, Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., vice chairman, of the Non-Ferrous Division. These men well merit the honor as they have been taking active parts in the work of the Association for many years.

Mr. Phillips for the past two years has been vice chairman of the Gray Iron Division and in addition has served as a member and as chairman of many Gray Iron Division committees. Mr. Phillips was born in Prairie Creek, Ind., and received his education at Rose Polytechnic Institute, Terre Haute, Ind., and Carnegie Institute of Technology, Pittsburgh. After completing his education, he was metallurgist, Frank Foundries Corp., Moline, Ill., and now holds the same position with the Tractor Works, International Harvester Co.

W. H. Spencer, recently appointed vice chairman of the Gray Iron Division, is metallurgist at the Sealed Power Corp., Muskegon, Mich. Born in Thomasville, Ala., Mr. Spencer received his education at Vanderbilt University, Nashville, Tenn. After graduation there, he joined the staff of the American Cast Iron Pipe Co., Birmingham, Ala., and, except for the year 1928-29 when he was foundry superintendent at the University of Illinois, was with that company continuously until he ac-

cepted his present position. Mr. Spencer is well known to foundrymen for his many writings for the trade press and the papers on different phases of cast iron and cupola practice which he has presented before meetings of technical societies. He has been active in committee work of the Association for many years.

Mr. Roast is a man of many accomplishments. He was born in England and received his education there, graduating from City of London College. He went to Canada in 1902 and since then has been associated with the following companies in various capacities: Milton Hersey Co., Montreal; Canada Iron Foundries, Radnor Forges, Quebec; Canadian Carbonate Co., Ltd., Montreal; James Robertson Co., Ltd., Montreal; National Bronze Co., Montreal; Robert Mitchell Co., Ltd., Montreal; and finally Canadian Bronze Co., Ltd., Montreal, of which he is technical advisor. He is also proprietor, Roast Laboratories, Montreal; consulting metallurgical chemist and sessional lecturer, McGill University, department of metallurgy. He is a member of many technical societies, in which he takes an active interest and has contributed many papers to them, especially to A.F.A.

Mr. Laird's photograph will be published in a later issue.

Chairmen of the Malleable and Steel Divisions are L. J. Wise, Chicago Malleable Castings Co., Chicago, and John Howe Hall, consultant on steel castings, Germantown, Philadelphia, respectively. Messrs. Wise and Hall are serving their second year as chairman of their respective divisions.



G. P. Phillips
Gray Iron



L. J. Wise
Malleable



Harold J. Roast
Non-Ferrous



John Howe Hall
Steel



Regional Meetings

Second Fall Technical Conference To Be Held at University of Michigan

COOPERATING with the University of Michigan, the second Fall Technical Conference of the A.F.A. will be held at Ann Arbor, Mich., Sept. 15, 16, and 17. All divisions, steel, malleable, non-ferrous and gray iron, have joined in developing the program which, following the precedent set at the first technical conference held at Battelle Memorial Institute, Columbus, Ohio, last fall, is providing discussions of some of the most pertinent technical problems facing the foundry metallurgist today.

Following a receipt of an invitation to hold a meeting at Ann Arbor from the University this fall, the advisory committees of the divisions all voted in favor of acceptance and, on the approval of the Board of Directors, a conference committee was organized. As the meeting is to be held in the Detroit chapter area, this chapter was invited to cooperate. The personnel of the committee developing the program consists of:

Committee Staging Conference

Richard Schneidewind, Department of Engineering Research, University of Michigan, Ann Arbor, Mich., *Chairman*.

Representing A.F.A. Gray Iron Division, A. L. Boegehold, General Motors Research Laboratory, Detroit, Mich.

Representing A.F.A. Steel Division, F. A. Melmoth, Detroit Steel Casting Co., Detroit, Mich.

Representing A.F.A. Malleable Division, H. M. Wright, Michigan Malleable Iron Co., Detroit, Mich., and J. H. Lansing and E. Touceda, Malleable Founders' Society, Cleveland, Ohio.

Representing A.F.A. Non-Ferrous Division, H. M. St. John, Detroit Lubricator Co., Detroit, Mich., and E. R. Darby, Federal-Mogul Corp., Detroit, Mich.

Representing Detroit Chapter of A.F.A., Fred J. Walls, International Nickel Co., Detroit, Mich.; R. G. McElwee, Vanadium Corp. of America, Detroit, and V. A. Crosby, Climax-Molybdenum Co., Detroit.

The sessions of the conference will be held in the Michigan Union Building which provides unusual facilities for holding such a conference.

The tentative program is shown below:

Thursday, September 15

Registration.

A. M. Technical Session—Malleable Iron.

Chairman, Homer Wright, Michigan Malleable Iron Co.

Discussion: Malleablizing.

P. M. Technical Session—Non-Ferrous.

Chairman, E. R. Darby, Federal Mogul Corp.

Discussion: Age Hardening.

Friday, September 16

A. M. Technical Session—Steel.

Chairman, F. A. Melmoth, Detroit Steel Castings Co.

Highly Alloyed Heat and Scale Resistant Steel Castings, James Corfield, Michigan Steel Castings Co., Detroit.

Cast Steels in Automotive Work, H. H. McCarroll, Ford Motor Co.

P. M. Technical Session—Cast Iron.

Chairman, V. A. Crosby, Climax Molybdenum Co., Detroit.

Transformation Rate of Austenite in Cast Iron, Prof. W. P. Wood and Dr. D. W. Murphy, University of Michigan.

Effect of Under Cooling on the Nature of the Graphite Pattern in Gray Cast Irons, C. D. A'mico and R. Schneidewind, University of Michigan.

The Spectrograph as a Foundry Tool, A. M. Sampson, Campbell Wyant and Cannon Foundry Co.

Evening—Conference Dinner.

Saturday, September 17

A. M. Technical Session—Cast Iron.

Chairman, A. L. Boegehold, General Motors Research Laboratory.

Discussion Leader, J. W. Bolton, Lunkenheimer Co.

Assistant Discussion Leaders:

R. G. McElwee, Vanadium Corp. of America.

F. J. Walls, International Nickel Co.

V. A. Crosby, Climax Molybdenum Co.

P. M. Laboratory Inspections and Demonstrations.

P. M. Recreation—Golf, swimming, etc.

AMERICAN FOUNDRYMAN

St. Louis Chapter Plans Second Foundry Conference

By J. W. Kelin,* St. Louis, Mo.

KEEN interest is being manifest in tentative plans of the St. Louis District Chapter of A.F.A. for its second annual conference to be held at the Missouri School of Mines and Metallurgy, Rolla, Mo., October 7 and 8, 1938. Advance interest indicates that a very large attendance will be at all sessions, probably supplemented by a considerable group of interested workers from the Kansas City extension group of the St. Louis Chapter.

The tentative program is as follows:

Tentative Program

Friday, October 7

8:00—9:00 AM Registration (Metallurgy Bldg., Club Room)

9:30—12:00 AM Cupola Practice (Parker Hall)

Chairman: Geo. W. Mitsch, American Car & Foundry Co., St. Louis, Mo.

Subject—"Mechanical Charging with Cupola Control, as Practiced at Caterpillar Tractor Company"

Speakers: M. J. Gregory, Caterpillar Tractor Co., Peoria, Ill.

A. O. Nilles, Griffin Wheel Company, Kansas City, Kans.

9:30—12:00 AM Non-Ferrous and Malleable (Metallurgy Bldg.)

Chairman: J. O. Klein, Southern Malleable Iron Co., E. St. Louis, Ill.

Malleable

Subject—"Short Cycle Anneal"

Speakers: Leon J. Wise, Chicago Malleable Castings Co., Chicago, Ill.

Hyman Bornstein, Deere & Company, Moline, Ill.

Non-Ferrous

Subject—"Selection and Application of Non-Ferrous Alloys."

Speaker: J. W. Kelin, Federated Metals Corp., St. Louis, Mo.

12:45 PM Luncheon (Long Hotel)

Address by Chapter Chairman J. O. Klein, Southern Malleable Iron

Subject—"Safety First in the Foundry"

Speaker: J. O. Johnson, American Optical Co., St. Louis, Mo.

*Federated Metals Division, American Smelting & Refining Co., and Secretary-Treasurer, St. Louis District Chapter.

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2:30—4:30 PM Joint Assembly (Parker Hall)

Address of Welcome: William R. Chedsey, Director, Missouri School of Mines, Rolla, Mo.

2:30—4:30 PM Sands and Refractories

Chairman: L. C. Farquhar, American Steel Foundries, E. St. Louis, Ill.

Sands

Subject—"Testing and Control of Molding Sands"

Speaker: H. W. Dietert, Harry W. Dietert Co., Detroit, Mich.

Subject—"Molding Sand Problems in the Foundry"

Speaker: Horace Deane, Deere & Company, Moline, Ill.



L. E. Everett

Newly elected Vice Chairman of St. Louis District Chapter

Refractories

Subject—"Refractories from Missouri Clays"

Speakers: M. C. Booze, Chas. Taylor Sons Co.

C. M. Dodd, professor, Missouri School of Mines, Rolla, Mo.

6:30 PM Dinner (Pierce Pennant Hotel)

Chairman: Geo. S. Haley, Century Foundry, St. Louis, Mo.

Introduction of Officers from National Association

Speaker: L. P. Robinson, The Werner G. Smith Co., Cleveland, Ohio

Saturday, October 8

9:00—12:00 AM Gray Iron and Metallography (Parker Hall)

Chairman: C. R. Culling, Carondelet Foundry Co., St. Louis, Mo.

Subject—"Limitations of the Spectrograph"

Speakers: S. R. B. Cook, professor, Missouri School of Mines, Rolla, Mo.
Carl H. Morken, Carondelet Foundry Co., St. Louis, Mo.

9:00—12:00 AM Steel (Metallurgy Bldg.)

Chairman: W. Carter Bliss, Scullin Steel Co., St. Louis, Mo.

Subject—"The Manufacture of Steel Castings for High Pressure, High Temperature Service"

Speaker: Lee Everett, Key Co., E. St. Louis, Ill.

Subject—"Blow Holes in Steel Castings"

Speaker: Joseph D. Walsh, Scullin Steel Co., St. Louis, Mo.

On Saturday afternoon there will be a football game at the Rolla School of Mines stadium and also golf for those who wish to play.

A. F. A. Chapters Sponsor Conference at University of Iowa

FOR the third successive year, a two-day foundry conference is to be held at the State University of Iowa, Iowa City. The meeting has been



Dean F. M. Dawson

scheduled for Friday and Saturday, October 14 and 15, and this year the Quad City Chapter and the University, sponsors of the past meetings, will have the cooperation of the Northern Illinois and Southern Wisconsin Chapter of A.F.A. and the Northern Iowa Foundrymen's Association.

The Quad City Chapter, under the chairmanship of M. J. Gregory, Caterpillar Tractor Co., Peoria, Ill., appointed a committee to work with

Prof. H. O. Croft and Mr. A. V. O'Brien of the University in developing the program. This committee consists of its chairman, Horace Deane, Deere & Co., Moline; Harry Henninger, Farmall Works, International Harvester Co., Rock Island; and T. J. Frank, Frank Foundries, Inc., Davenport. A very interesting program has been developed and is as follows:

Tentative Program

Friday, October 14.

9:00 AM Registration—Engineering Building, State University of Iowa, Campus.

9:30 AM Opening Meeting.

Chairman, P. T. Bancroft, Moline, Ill.

Address of Welcome, Dean F. M. Dawson, College of Engineering.

10:00 AM Practical Sand Problems and Their Remedies.

Chairman, H. H. Schmidt, International Harvester Co., Rock Island, Ill.

Core Room Problems, L. P. Robinson, Werner G. Smith Co., Cleveland, O.

Casting Defects Due to Sand, H. W. Dietert, Harry W. Dietert Co., Detroit, Mich.

2:00 PM Practical Metal Problems and Their Remedies.



The University of Iowa Has a Beautiful Campus and Fine Facilities for Holding the Conference. This Illustration Shows a View of the Campus Across the River.

Nonferrous—Chairman, H. E. Alex, Rock Island Arsenal, Rock Island, Ill.

Defects in Non-Ferrous Castings—C. V. Nass, Fairbanks-Morse & Co., Beloit, Wis.

Gray Iron—Chairman, A. E. Hageboeck, Frank Foundries, Inc., Moline, Ill.

Producing Good Gray Iron—M. J. Gregory, Caterpillar Tractor Co., Peoria, Ill.

6:30 PM Conference Dinner.

Addresses:

H. Bornstein, Past President of A.F.A. and Director of Laboratories, Deere & Co., Moline, Ill.

President Gilmore, State University of Iowa.

Saturday, October 15.

8:30 AM Equipment Problems and Methods.

Chairman—John H. Ploehn, French & Hecht, Inc., Davenport, Iowa.

Pattern Problems—J. E. Kolb, Caterpillar Tractor Co., Peoria, Ill.

9:40 AM Refractories.

Chairman—John H. Diedrich, Blackhawk Foundry & Machine Co., Davenport, Iowa.

Monolithic Linings—R. E. Wilke, John Deere Tractor Co., Waterloo, Iowa.

10:30 AM Molding Problems.

Chairman—Fred Kirby, John Deere Spreader Works, Moline, Ill.

Molding Equipment—W. R. Jennings, John Deere Tractor Co., Waterloo, Iowa.

Afternoon Recreation—Golf.

Chicago Chapter Plans Conference at Purdue University in October

CHICAGO CHAPTER committees in charge of the program for the regional conference to be staged at Purdue University, West Lafayette, Ind., October 27, 28 and 29, have been working and have announced a tentative program for the conference. The committees are under the general chairmanship of H. W. Johnson, Greenlee Foundry Co., Chicago, and past chairman of the Chicago Chapter.

The committees, which are making every effort to make the conference a success, are ably assisted by members of the Purdue engineering school staffs under the leadership of Prof. W. A. Knapp, assistant dean of engineering. According to present plans, practically all sessions will be held in the Purdue Memorial Union Building where ample facilities are available. Outstanding speakers are being secured for the various topics for discussion as shown in the following tentative program:

Tentative Program

Thursday, October 27

9:00 AM Registration.

9:45 AM General Session.

Address of Welcome.

Announcements.

10:30—12:15 AM

Steel—Melting Raw Materials.

Gray Iron—Melting Raw Materials.

Malleable—Melting Raw Materials.

12:30 PM Luncheon.

2:00—4:00 PM

Steel—Melting.

Gray Iron—Melting.

Malleable—Melting.

6:30 PM Dinner.

Speaker.

Entertainment.

Friday, October 28

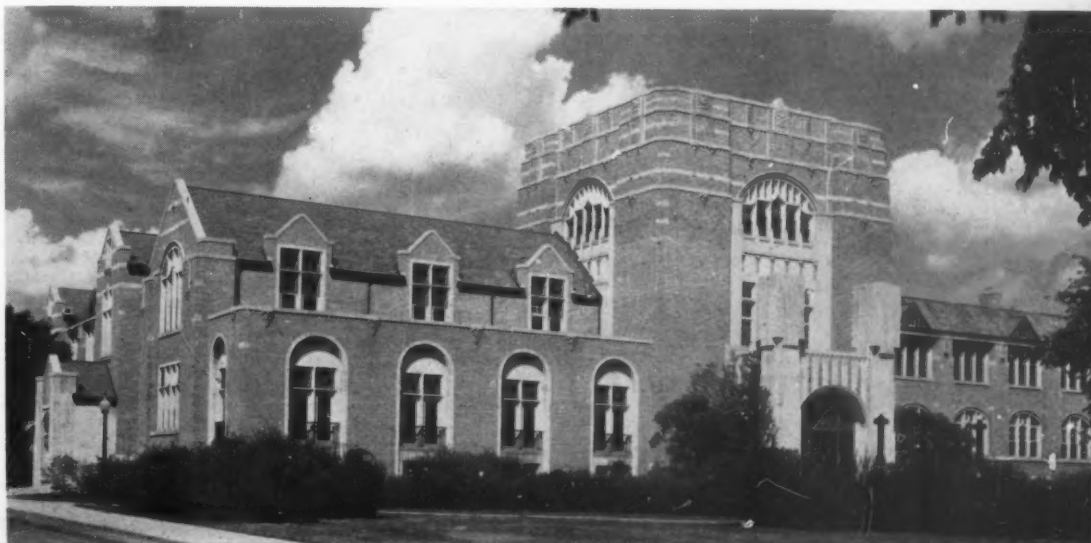
9:30—11:30 AM

Steel—Casting Defects.

Gray Iron—Casting Defects.

Meetings at the Purdue Conference Will Be Held in the Memorial Union Building, One of the Finest in the Big Ten.

JULY, 1938



Malleable—Casting Defects.

12:00 Noon—Luncheon.

2:00—4:00 PM

Metallography—General Session for Gray Iron, Steel and Malleable.

Saturday, October 29

9:00—12:00 Demonstrations.

Spectrographic Analysis.

Physical Testing.

Personnel of the general committee in charge of staging the conference is as follows:

Chairman—H. W. Johnson, Greenlee Foundry Co., Chicago.

L. H. Rudesill, Griffin Wheel Co., Chicago.

A. W. Gregg, Whiting Corp., Harvey, Ill.

J. D. Burlie, Western Electric Co., Chicago.

The following committees are representing the gray iron, steel and malleable divisions of the industry, and are planning the program:

Gray Iron

G. P. Phillips, International Harvester Co., Chicago, *Chairman*.

H. K. Briggs, Western Foundry Co., Chicago.

J. D. Burlie, Western Electric Co., Chicago.

A. W. Weston, Chicago Hardware Foundry, Co., North Chicago, Ill.

H. W. Johnson, Greenlee Foundry Co., Chicago.

Steel

A. W. Gregg, Whiting Corp., Harvey, Ill., *Chairman*.

C. E. Westover, Burnside Steel Foundry Co., Chicago.

Bert Aamodt, National Malleable & Steel Castings Co., Chicago.

W. H. Parker, American Steel Foundries, East Chicago, Ind.

James Thomson, Continental Roll & Steel Foundry Co., East Chicago, Ind.

Malleable

L. H. Rudesill, Griffin Wheel Co., Chicago, *Chairman*.

B. C. Yearley, National Malleable & Steel Castings Co., Chicago.

G. B. Stantial, Illinois Malleable Iron Co., Chicago.

J. H. Lansing, Malleable Founders' Society, Cleveland.

Chicago Chapter Completes Lecture Course

WITH an enrollment of over 550 and an average attendance of nearly 400, the Chicago Chapter has completed its third lecture course. The course this year eclipsed other lecture courses from the standpoint of both attendance and interest and definitely showed that there is a demand among the younger men in the industry for information on the fundamentals of foundry practice.

A portion of the increased attendance was attributable to the central location of the lecture room. This year lectures were

held in the auditorium of the Peoples Gas, Light & Coke Co., 122 South Michigan Ave., Chicago.

However, the major portion of the credit for the fine showing was due to the work of the committee which handled this project. This committee was composed of

J. J. Fox, Wisconsin Steel Co., *Chairman*.

L. L. Henkel, Interlake Iron Corp., *Secretary*.

S. M. Brah, International Correspondence Schools.

V. G. Cornelius, Carnegie-Illinois Steel Co.

A. W. Gregg, Whiting Corp.
L. F. Lottier, Peoples, Gas Light & Coke Co.

P. D. Martin, Carnegie-Illinois Steel Co.

C. R. McGrail, Steel Sales Corp.

W. H. Parker, American Steel Foundries.

G. P. Phillips, International Harvester Co.

R. W. Schroeder, Crane Technical High School.

M. K. Wells, Chicago Foundry Co.

A. W. Weston, Chicago Hardware Foundry Co.

L. J. Wise, Chicago Malleable Castings Co.

The course consisted of eight lectures and two plant visitations each of the latter being attended by over 200 persons. A vote of those enrolled showed almost unanimous desire for a continuation of the course next year.

J. D. Burlie, Western Electric Co., will be chairman of the 1938-39 Chicago Chapter Lecture Course Committee.

AMERICAN FOUNDRYMAN

A Typical Chicago Chapter Lecture Course Meeting. Average Attendance Was Approximately 400.



Hygiene



Heat Sickness

The following article on heat sickness was prepared by the Department of Industrial Medicine, Northwestern University Medical School. This department was founded about two years ago and is interested particularly in increasing efficiency of medical service in industry.

DISABILITY or death due to "heat sickness" is a major hot weather health problem both in and out of industry. The present knowledge of the circumstances under which it occurs, the relative importance or various factors involved, the essentials of effective treatment and methods of prevention have been so well worked out that the application of this knowledge should result in a decreased frequency, morbidity and mortality rate.

The importance of the industrial phase of this problem is emphasized by a report of the Metropolitan Life Insurance Company, to the effect that excessive heat is charged with 3,537 deaths, or 1.6 per cent., of all accident fatalities among insured industrial employees during the years 1911 to 1935; the standardized death rates for the 25-year period averaging 1.4 per hundred thousand.

Three fairly distinct physical effects may result from exposure to high temperatures: heat cramps, heat exhaustion and heat or sun stroke.

The heat regulatory mechanism controls body temperature within narrow limits in the normal organism. This mechanism is very delicate but ordinarily very efficient; when it fails to function properly "heat sickness" may develop.

It is often difficult to distinguish the common types of "heat sickness" and it is not absolutely essential from a treatment standpoint that they be differentiated. However, it is very important to remember that what is apparently a mild case may suddenly, or in a few hours, change to a desperate one with an alarming rise in body temperature.

Heat Cramps

Heat cramps is a condition in which there is severe muscular discomfort, profuse perspiration, normal temperature. Certain changes in the blood chemistry may occur. The cramps are termed mild, moderate or severe and are usually induced by strenuous muscular work or exertion in high tem-

peratures, either in the sunshine or indoors. They are painful contractions of the muscles in the hands, arms, legs and sometimes of the trunk. In addition, the skin is usually cold and clammy and the face is pale. There may be chills, dizziness and even vomiting. There are usually characteristic blood changes due to loss of water and mineral salts through perspiration.

Heat Exhaustion

Heat exhaustion is a more severe condition resembling circulatory failure. There is profuse perspiration, pallor, low blood pressure, temperature either below or only slightly above normal and other signs of disturbed circulatory function. It is more like surgical shock and not a definite interference with the heat regulatory mechanism. Muscle cramps are usually not present. Blood chemistry studies have failed to aid in an understanding of this condition.

Heat or Sun Stroke

Heat or sun stroke, the most severe type of heat sickness, is characterized by high fever (105° to 110°), mental disturbances or profound coma and dry skin. These symptoms may or may not be preceded by cramps or exhaustion. Heat stroke is the cumulative effect of exposure to high temperatures accompanied by loss of control of the regulatory mechanisms usually manifesting itself suddenly and violently. A latent period of mild symptoms often precedes the onset. Studies reveal a definite relationship between a sudden alteration in the sweating mechanism and high body temperature. Cessation of sweat precedes the actual heat stroke. Old age, the degenerative diseases particularly of heart or kidneys, and chronic alcoholism (especially excessive beer drinking) unquestionably play an important predisposing role.

Heat stroke because of the high death rate (30-50 per cent.) is by far the most serious.

Management

Prevention of "Heat Sickness"

An alert medical service can do much to prevent "heat sickness" in industrial establishments and modern treatment aggressively applied will save life even in the most severe cases. Those things which are necessary in preventing "heat

sickness" depend for their effectiveness to a great extent on the knowledge and understanding of the men who are exposed to heat hazards. Medical personnel must have the intelligent cooperation of the exposed individuals if control is to be effective. There are a few general rules that should be common knowledge among those working in high temperatures.

1. Dry heat is much less dangerous than moist heat. Workmen can stand a surprisingly high temperature if there is a plentiful supply of fresh air. However, if the air is moist, that is, if the humidity is high and there is little movement of the air, a temperature of even 100° may produce sickness.
2. Heavy, overweight individuals who habitually eat and drink too much are more likely to suffer heat sickness than those who eat and drink moderately.
3. Most men in ordinary health can stand one or two hot days, but if a "hot spell" lasts day and night for a longer time, the lack of proper rest, the disturbance in digestion commonly incident to too much cold food and drink, and accumulated exhaustion unite to produce a condition predisposed to "heat sickness."

During the "hot spells" of summer those who are employed in the so-called "hot jobs" of industry should be instructed in a few simple things, such as—

1. The skin must be kept clean; a bath should be taken at least once a day. If a bath tub or shower is not available a simple sponge bath from a basin or pail will do.
2. Clothing should be as light as compatible with working conditions.
3. Food consumed should be about half that eaten in winter. Food containing large amounts of fat and sugar should be avoided.
4. The use of alcohol in any form should be very moderate.
5. Plenty of cool (not iced) water, lemonade or orangeade should be taken.
6. If an individual develops that common condition where his thirst is not satisfied by ordinary water, salt is needed. A half teaspoonful of ordinary table salt to a glass of water is usually sufficient.
7. Where men are at work this need for salt can be best met by salt tablets. Suitable tablets and dispensing machines are now on the market. Dispensers should preferably be located near drinking fountains.

It has been found that tablets containing 10 to 15 grains of salt, or better, 10 grains of salt and 5 grains of glucose, are very satisfactory. The dose is 1 or 2 tablets taken at intervals of 1 to 2 hours during the hottest part of the day. A total of 6 tablets is usually adequate.

Symptoms of "Heat Sickness"

The symptoms of impending "heat sickness" of all types irrespective of severity are:

1. Reduction or absence of perspiration.
2. Headache, dizziness, faintness, spots before the eyes.
3. Nausea, vomiting.
4. Cramps in extremities or abdomen.
5. Chilly sensations running up and down the spine.

What Men Should Do if They Are at Work

1. Get into the open air or the coolest available place as soon as possible. Sit down in the shade of a building or tree.
2. Send for a doctor at once.
3. Loosen clothing so that the wind can blow through. Splash water on head and chest.

What Men Should Do if They Are at Home

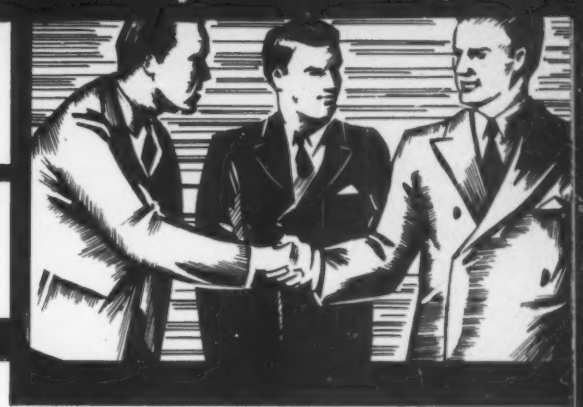
1. Get into a bath of cool water for 5 or 10 minutes.
2. Let the water evaporate on the body. Do not use a towel.
3. Repeat the bath at half hour intervals.
4. Sit by an open window or open door. Use an electric fan if one is available.
5. Do not delay calling the doctor, as any heat case may be serious.

What the Doctor Should Remember

1. Regardless of degree, every heat sickness case is an emergency. Any case may terminate fatally—the unconscious man with a high fever may never regain consciousness; the fat old man with poor myocardium may have no fever at all but die quietly while those around him are wondering if he is really ill.
2. Continuous supervision by trained medical personnel is imperative if serious complications or death are to be prevented. This supervision should begin as soon as possible after symptoms of "heat sickness" develop and last until all symptoms have subsided.
3. Every physician responsible for the medical service in any industrial unit where there are unusual heat exposures should plan in detail just how heat cases are to be handled. He should plan for such treatment before the emergency arises.
 - (a) Departmental first aid teams should be re-instructed at the beginning of each summer in all the details of care of heat cases up to the time the doctor takes charge.
 - (b) Transportation to the plant dispensary is important and must be ready for use. Transportation to home or to hospital, whether it be by automobile or ambulance, should be available on short notice.
 - (c) Hospital admitting room personnel, internes and nurses should be carefully

(Concluded on Page 12)

New Members



Firm Members

American Malleable Castings Co., Marion, Ohio.
Battle Creek Foundry Co., Battle Creek, Mich.
John Bertram & Sons Co., Ltd., Dundas, Ont., Canada.
Canadian Blower & Forge Co., Ltd., Kitchener, Ont., Canada.
Columbiana Foundry Co., Columbiana, Ohio.
W. L. Davey Pump Corp., Rockford, Ill.
A. Kilpatrick & Sons Foundry Co., St. Louis, Mo.

Lakeside Foundry, Ltd., Port Colborne, Ont., Canada.
Jas. E. McGraw & Sons, Brea, Calif.
C. & G. Potts & Co., Indianapolis, Ind.
N. Ransohoff, Inc., Carthage, Cincinnati, Ohio.
J. B. Ripley Brass Foundry, Inc., Windsor, Vt.
Rockford Standard Pattern Works, Rockford, Ill.
Scullin Steel Co., St. Louis, Mo.
Simonds Saw & Steel Co., Lockport, N. Y.
Struthers Iron & Steel Co., Struthers, Ohio.

Personal Members

C. P. Anderson, Madsen Iron Works, Huntington Park, Calif.
Victor F. Andre, A & L Pattern Works, Berkeley, Calif.
John Chester Arbaugh, Wheeling & Lake Erie Railroad, Brewster, Ohio.
Everett D. Betts, Howell, Mich.
J. K. Boehm, J. K. Boehm Sand Co., Huron, Ohio.
J. B. Brown, Kilby Car & Foundry Co., Anniston, Ala.
Robert W. Bruce, N & S Foundry Co., Seattle, Wash.
James A. Bryson, Burgess-Parr Co., Freeport, Ill.
Everett N. Carpenter, Carpenter Brothers, Inc., Milwaukee, Wis.
Charles A. Conlin, Brighton Electric Steel Casting Co., Beaver Falls, Pa.
Arthur Francis Dockry, H. & B. American Machine Co., Pawtucket, R. I.
John Donnelly, Apex Steel Corp., Los Angeles, Calif.
Theodore W. Fredrich, Production Pattern & Equipment Co., Milwaukee, Wis.
A. S. Gardner, Atlas Bronze Corp., Philadelphia, Pa.
Chester C. Hahn, National Transit Pump & Machine Co., Oil City, Pa.

W. T. Harrison, Niagara Machine & Tool Works, Buffalo, N. Y.
E. J. Hyche, Rich Mfg. Co., Los Angeles, Calif.
Fred P. Langschwager, Bridgeport Core Sand Co., Saginaw, Mich.
Martin J. Lefler, Oliver Farm Equipment Co., South Bend, Ind.
Reinhold D. Loesch, Lake Erie Foundry Co., Buffalo, N. Y.
Joseph P. Nevin, Otis Elevator Co., Yonkers, N. Y.
Otto E. Peterson, Federal Foundry Supply Co., Chicago, Ill.
Irvin B. Rickly, Irvin B. Rickly Co., Columbus, Ohio.
H. E. Rupp, Rupp Pattern Co., Rockford, Ill.
F. F. Shortsleeve, Elmira, N. Y.
Wm. J. Thurlow, Michigan Alkali Co., Wyandotte, Mich.
Charles E. Vaughn, Ritter Dental Manufacturing Co., Inc., Rochester, N. Y.
Richard Vosbrink, Berkeley Pattern Works, Berkeley, Calif.
Gerald L. White, Westman Publications, Ltd., Toronto, Ont., Canada.
Pearson F. Williams, Manufacturers Brass Foundry Co., Chicago, Ill.

Affiliate Members

Samuel Appelby, foundry superintendent, Buffalo Foundry & Machine Co., Buffalo, N. Y.
August Christen, sales representative, Arcade Mfg. Co., Freeport, Ill.
John Clausen, metallurgist, Greenlee Brothers & Co., Rockford, Ill.
Wm. J. Coane, vice president and sales manager, Ajax Metal Co., Philadelphia, Pa.
Harry H. Comstock, foundry foreman, Syracuse Chilled Plow Co., Inc., Syracuse, N. Y.

Dan B. Dimick, Jr., foundry superintendent, Stockham Pipe Fittings Co., Birmingham, Ala.
H. M. Donaldson, partner, H. C. Donaldson & Co., Los Angeles, Calif.
John Fienning, foundry superintendent, Chicago Hardware Foundry Co., North Chicago, Ill.
Alexander D. Forbes, assistant superintendent, Gunite Foundries Corp., Rockford, Ill.
A. G. Francis, chief chemist, Walworth Co., Greensburg, Pa.

Harry William Freeman, field engineer, Carnegie-Illinois Steel Co., Chicago, Ill.

W. L. Garrison, assistant general purchasing agent, Ingersoll-Rand Co., New York, N. Y.
 George A. Gorman, cupola foreman, Allyne-Ryan Foundry Co., Cleveland, Ohio.
 Brett D. Holmes, foundry manager, Simonds Saw & Steel Co., Lockport, N. Y.
 G. M. Howard, sales manager, N. Ransohoff, Inc., Carthage, Cincinnati, Ohio.
 O. W. Josephson, sales representative, S. Obermayer & Co., Rockford, Ill.
 Herbert L. Klopff, time study, Fairbanks-Morse & Co., Beloit, Wis.
 William D. Lamont, metallurgist, Dominion Foundries & Steel, Ltd., Hamilton, Ont., Canada.
 C. Lewis Lane, metallurgist, Florence Pipe Foundry & Machine Co., Florence, N. J.
 G. L. Larson, assistant general superintendent, Crane Co., Chicago, Ill.
 Richard H. Lee, Bethlehem Steel Co., Bethlehem, Pa.
 Norman C. MacPhee, metallurgist, McKinnon Industries, Ltd., St. Catharines, Ont., Canada.
 George K. Minert, assistant metallurgist, Gunit Foundries Corp., Rockford, Ill.

L. S. Moncrief, pattern shop foreman, Stockham Pipe Fittings Co., Birmingham, Ala.
 Howard Nelson, salesman, Sloss-Sheffield Steel & Iron Co., Birmingham, Ala.
 Irvin Peterson, foreman, Gunit Foundries Corp., Rockford, Ill.
 Max J. Reuteler, assistant foundry superintendent, Fairbanks-Morse & Co., Beloit, Wis.
 Albert Rosanes, foreman, Carnegie-Illinois Steel Co., Chicago, Ill.
 O. F. Seidenbecker, general manager of sales, Wisconsin Steel Co., Chicago, Ill.
 Harry J. Wade, pattern shop superintendent, Fairbanks-Morse & Co., Beloit, Wis.
 G. J. Weber, operating department, Griffin Wheel Co., Chicago, Ill.
 Lyndon H. Wells, N. Ransohoff, Inc., Rochester, N. Y.
 J. A. Westover, standards department, Burnside Steel Foundry, Chicago, Ill.
 Mentor Wheat, sales department, Arcade Mfg. Co., Freeport, Ill.
 Walter A. Zeis, salesman, M. A. Bell Co., St. Louis, Mo.

Foreign Members

Broken Hill Proprietary Co., Ltd., Melbourne, Victoria, Australia.
 H. J. Miller, Copper Development Association,

London, S.W.1, England.
 Thomas Tyrie, Foundry Technical Institute, Falkirk, Stirlingshire, Scotland.

British Foundrymen Invite Participation in 1939 International Foundry Congress

ON the occasion of the holding of the 1938 conference of the Institute of British Foundrymen, held in June, Frank G. Steinebach, *The Foundry*, chairman of the A.F.A. Committee on International Relations, cabled greetings on behalf of the A.F.A. to the assembled members of the I.B.F. Mr. Steinebach since has received a letter of acknowledgement from Tom Makemson, secretary of the I.B.F. In this letter, which is reproduced below, the attention of A.F.A. members is called to the announcement of the 1939 International Foundrymen's Congress to which the I.B.F. will be host. Members planning a European trip next year are urged to participate in this international meeting which will be held in London in June. Mr. Makemson's letter follows:

The Institute of British Foundrymen Manchester, England

Frank Steinebach, Chairman
 Committee on International Relations
 American Foundrymen's Association.

Dear Mr. Steinebach:

The President, Council and members of this Institute, were very delighted to receive your table of greetings, and good wishes, on the occasion of our Annual Conference at Bradford, and they have instructed me to

reply to you, and to express their sincere thanks.

Our conference will be in June next year, and, of course, will be an International Congress. I hope that we may have the pleasure of seeing you, and also a very large number of your colleagues on that occasion.

Yours sincerely,

Tom Makemson, Secretary.

Heat Sickness - -

(Concluded from Page 10)

instructed in all the details of the care of hospitalized heat cases. There must be no delay in the routine of hospital admission. Treatment must begin as soon as the patient is admitted.

Speed, organization and continuous observation are the keys to the effective treatment of all heat sickness.

Because of the potential seriousness of "heat sickness, every case should be observed carefully and not released from medical supervision until it is absolutely certain that all danger is past. It is only with the cooperation of management, education of the worker and the prompt application of adequate medical measures that this major hot weather health problem can be controlled.

AMERICAN FOUNDRYMAN

Chapter Directory



Chicago Chapter

Meetings—2nd Monday, monthly, Medinah Club of Chicago.
 Chairman—L. H. Rudesill, Griffin Wheel Co.
 Vice-Chairman—C. E. Westover, Burnside Steel Foundry Co.
 Treasurer—C. C. Kawin, Chas. C. Kawin Co.
 Secretary—L. L. Henkel, Interlake Iron Corp.
 Directors—H. Kenneth Briggs, Western Foundry Co.
 J. D. Burlie, Western Electric Co.
 J. J. Fox, Wisconsin Steel Co.
 A. W. Gregg, Whiting Corp., Harvey, Ill.
 H. W. Johnson, Greenlee Foundry Co.
 W. C. Packard, National Engineering Co.
 W. H. Parker, American Steel Foundries, East Chicago, Ind.
 G. P. Phillips, International Harvester Co.
 C. O. Thieme, H. Kramer & Co.
 James Thomson, Continental Roll & Steel Foundry Co., East Chicago, Ind.
 A. W. Weston, Chicago Hardware Foundry Co., North Chicago, Ill.
 L. J. Wise, Chicago Malleable Castings Co.

Northeastern Ohio Chapter

Meetings—2nd Thursday, monthly, Cleveland Club, Cleveland.
 Chairman—L. P. Robinson, Werner G. Smith Co.
 Vice-Chairman—Charles Seelbach, Forest City Foundries Co.
 Treasurer—R. F. Lincoln, Osborn Mfg. Co.
 Secretary—J. H. Tressler, Hickman Williams Co.
 Directors—Homer Britton, Cleveland Cooperative Stove Co.
 F. R. Fleig, Smith Facing & Supply Co.
 E. F. Hess, Ohio Injector Co., Wadsworth.
 D. J. McAvoy, Grabler Mfg. Co.
 B. G. Parker, Youngstown Foundry & Machine Co., Youngstown.
 Marcel Reymann, Atlantic Foundry Co., Akron.
 S. P. Schloss, Superior Foundry Co.
 Frank G. Steinebach, The Foundry.
 Fred A. Stewart, National Malleable & Steel Castings Co.

Quad City Chapter

Meetings—3rd Monday, monthly, rotate between Davenport, Iowa; Moline, East Moline and Rock Island, Ill.
 Chairman—M. J. Gregory, Caterpillar Tractor Co., Peoria, Ill.
 Vice-Chairman—H. A. Deane, Deere & Co., Moline, Ill.
 Secretary-Treasurer—J. Morgan Johnson, Tri-City Mfrs. Assn., Moline, Ill.

Directors—P. T. Bancroft, Moline, Ill.
 H. Bornstein, Deere & Co., Moline, Ill.
 C. H. Burgston, Deere & Co., Moline, Ill.
 T. J. Frank, Frank Foundries Corp., Davenport, Iowa.
 F. O. Gorman, John Deere Spreader Works, E. Moline, Ill.
 A. E. Hageboeck, Frank Foundries Corp., Moline, Ill.
 H. F. Henninger, International Harvester Co., Rock Island, Ill.
 John H. Ploehn, French & Hecht, Inc., Davenport, Iowa.
 W. O. McFatridge, International Harvester Co., Rock Island, Ill.

Detroit Chapter

Meetings—3rd Thursday, monthly, Fort Shelby Hotel, Detroit.
 Chairman—Ira F. Cheney, Griffin Wheel Co.
 Vice-Chairman—Harry W. Dietert, H. W. Dietert Co.
 Secretary—Harry J. Deutsch, Aluminum Co. of America.
 Treasurer—Wm. W. Bowring, F. B. Stevens, Inc.
 Directors—Glenn Coley, Detroit Edison Co.
 R. B. Crawford, Atlas Foundry Co.
 J. H. Crawley, Pontiac Motor Co.
 L. G. Korte, Atlas Foundry Co.
 D. J. Meloche, American Radiator Co.
 J. D. Stoddard, Detroit Testing Laboratory.

St. Louis District Chapter

Meetings—2nd Thursday, monthly, St. Louis.
 Chairman—J. O. Klein, Southern Malleable Iron Co.
 Vice-Chairman—Lee Everett, The Key Co.
 Secretary-Treasurer—J. W. Kelin, Federated Metals Div., American Smelting & Refining Corp.
 Directors—M. A. Bell, M. A. Bell Co.
 O. J. Belzer, Banner Iron Works.
 L. J. Desparois, Pickands Mather & Co.
 G. S. Haley, Century Foundry Co.
 G. W. Mitsch, American Car & Foundry Co.
 L. Reiber, United Collieries, Inc.

Metropolitan Philadelphia Chapter

Meetings—2nd Friday, monthly, Engineers' Club, Philadelphia.
 Chairman—H. L. Henszey, The Carborundum Co., Philadelphia.
 Vice-Chairman—W. C. Hartmann, Bethlehem Steel Co., Bethlehem, Pa.
 Secretary-Treasurer—W. B. Coleman, W. B. Coleman & Co., 1920 W. Indiana Ave., Philadelphia.
 Directors—C. A. Bever, Bethlehem Steel Co., Bethlehem, Pa.
 J. T. Fegley, North Bros. Mfg. Co.
 G. L. Coppage, Pusey & Jones Corp., Wilmington, Del.
 L. W. Harris, Link-Belt Co.
 R. J. Keeley, Ajax Metal Co.
 John H. S. Spencer, H. W. Butterworth & Sons Co., Bethayres, Mont. Co., Pa.

Wisconsin Chapter

Meetings—3rd Friday, monthly, Schroeder Hotel, Milwaukee.
 Chairman—Roy M. Jacobs, Standard Brass Works.
 Vice-Chairman—Wm. J. McNeill, Federal Malleable Iron Co.
 Treasurer—Wm. J. Donnelly, Smith Steel Foundry Co.
 Secretary—B. D. Claffey, General Malleable Corp., Waukesha.
 Directors—H. R. Donald, Interstate Supply & Equipment Co.
 Ray Flansburg, Belle City Malleable Iron Co., Racine.
 A. F. Genthe, Harnischfeger Corp.
 Walter Gerlinger, Walter Gerlinger, Inc.
 R. J. Kelly, American Skein & Foundry Co.
 R. S. MacPherran, Allis-Chalmers Mfg. Co.
 A. C. Ziebell, Universal Foundry Co., Oshkosh.

Northern California Chapter

Meetings—2nd Friday, monthly.
 Chairman—John D. Fenstermacher, Columbia Steel Co.
 Vice-Chairman—S. D. Russell, Phoenix Iron Works, Oakland.
 Secretary-Treasurer—G. L. Kennard, San Francisco.
 Directors—J. K. Benedict, H. C. Donaldson & Co., San Francisco.
 F. C. Holman, Tuolumne Foundry & Machine Works, Sonora.
 I. L. Johnson, Pacific Steel Casting Co., Berkeley.
 H. L. Martin, Vulcan Foundry Co., Oakland.
 M. M. Morison, Balfour, Guthrie & Co., Ltd., San Francisco.
 R. E. Noack, Monarch Foundry & Engineering Corp., Stockton.
 W. A. Schimmelpfennig, California Foundries, Inc., Oakland.
 M. G. Wilson, Wilson & Nutwell, Fresno.

Birmingham District Chapter

Meetings—3rd Friday, monthly, Tutwiler Hotel, Birmingham.
 Chairman—C. B. Saunders, Tennessee Coal, Iron & R. R. Co.
 Vice-Chairman—R. C. Harrell, Stockham Pipe Fittings Co.
 Secretary-Treasurer—W. O. McMahon, Sloss-Sheffield Steel & Iron Co.
 Directors—J. M. Franklin, Central Foundry Co.
 C. A. Hamilton, Alabama Pipe Co.
 J. E. Reynolds, U. S. Pipe & Foundry Co.
 W. L. Roueche, Sr., McWane Cast Iron Pipe Co.
 L. N. Shannon, Stockham Pipe Fittings Co.

Buffalo Chapter

Meetings—1st Monday, monthly, King Arthur's Restaurant, Buffalo.
 Chairman—M. W. Pohlman, Pohlman Foundry Co., Inc.
 Vice-Chairman—W. J. Corbett, Atlas Steel Casting Co.
 Treasurer—R. K. Glass, Republic Steel Corp.
 Secretary—J. R. Wark, Queen City Sand & Supply Co.
 Directors—J. P. Begley, Pratt & Letchworth Co., Inc.
 T. H. Burke, Otis Elevator Co.
 A. Lockwood, Lumen Bearings Co.
 V. M. Mazurie, Buffalo Foundry & Machine Co.
 W. S. Miller, Chas. C. Kawin Co.
 Lynn Reynolds, Worthington Pump & Machinery Co.
 R. T. Rycroft, Jewell Alloy & Malleable Co., Inc.

Southern California Chapter

Meetings—4th Thursday, monthly.
 Chairman—J. G. Coffman, Los Angeles Steel Castings Co., Los Angeles.
 Vice Chairman—Bert Oldfield, Alhambra Foundry Co., Alhambra.
 Secretary—M. S. Robb, Bethlehem Steel Co., Los Angeles.
 Treasurer—Chas. Gregg, Reliance Regulator Co., Alhambra.
 Directors—Earl Anderson, Enterprise Foundry Co., Los Angeles.
 E. F. Green, Axelson Mfg. Co., Los Angeles.
 Wm. Felfes, Westelectric Castings, Inc., Los Angeles.
 Robert Gregg, Reliance Regulator Co., Alhambra.
 S. R. Kimberly, Los Angeles Steel Casting Co., Los Angeles.
 D. E. Lingenfelter, Quality Foundry Co., Los Angeles.

John Hedley Dies

JOHAN HEDLEY, known as the Dean of California foundrymen, died recently in Decoto, Calif. Mr. Hedley had an astonishing career. Born in Preston, England, of a family of noted mechanics, he was taken to Australia at an early age. When he was 12 years old, he became a molder apprentice at the Union Foundry, Ballarat, Australia. He went to San Francisco in 1870 and worked in many foundries in that area until 1891 when he went into partnership with Thomas Morton to form the Western Foundry, which enjoyed a high reputation. Following the destruction of his plant by fire in 1927, he secured a connection with the Joshua Hendy Iron Works. On Nov. 15, 1933, he retired after 71 years of continuous service in the foundry industry.

During his career, he saw the industry on the Pacific Coast

G. W. Merrefield, Kay-Brunner Steel Products Co., Los Angeles.
 J. H. Wilkins, Dayton & Waldrup Co., Los Angeles.
 J. E. Wilson, Climax Molybdenum Co., Los Angeles.

Metropolitan New York-New Jersey Chapter

Meetings—3rd Monday, monthly.
 Chairman—D. J. Reese, International Nickel Co., New York.
 Vice-Chairman—W. E. Day, International Motor Co., New Brunswick, N. J.
 Secretary—T. J. Wood, Robins Conveying Belt Co., Passaic, N. J.
 Treasurer—Samuel Frankel, H. Kramer Co., New York, N. Y.
 Directors—R. J. Allen, Worthington Pump Co., Harrison, N. J.
 R. E. Nesbitt, Pratt Institute, Brooklyn, N. Y.
 W. A. Phair, Iron Age, New York, N. Y.
 J. W. Reid, Robins Conveying Belt Co., Passaic, N. J.
 Sam Tour, Lucius Pitkin, Inc., New York, N. Y.

Northern Illinois and Southern Wisconsin Chapter

Chairman—John Clausen, Greenlee Bros. & Co., Rockford, Ill.
 Vice-Chairman—G. J. Landstrom, Sundstrand Machine Tool Co., Rockford, Ill.
 Technical Secretary—H. C. Winte, Fairbanks, Morse & Co., Beloit, Wis.
 Secretary-Treasurer—G. K. Minert, Gunite Foundries Corp., Rockford, Ill.
 Directors—August Christen, Arcade Mfg. Co., Freeport, Ill.

C. M. Dale, Liberty Foundries Co., Rockford, Ill.
 W. L. Davy, W. L. Davy Pump Co., Rockford, Ill.
 W. E. Goff, J. I. Case Co., Rockford, Ill.
 H. F. Halverson, Beloit Foundry Co., Beloit, Wis.
 Eli Johnson, Greenlee Bros & Co., Rockford, Ill.
 P. A. Paulson, Gunite Foundries Corp., Rockford, Ill.
 A. W. Wiegart, Geo. D. Roper Corp., Rockford, Ill.
 George Zabel, Fairbanks, Morse & Co., Beloit, Wis.

Canadian Section

Chairman—Jos. Sully, Sully Brass Foundry, Ltd., Toronto.
 Vice-Chairman—H. J. Roast, Canadian Bronze Co., Montreal.
 Secretary-Treasurer—D. J. McDonald, Dominion Radiator & Boiler Co., Ltd., Toronto.
 Directors—Maj. L. L. Anthes, Anthes Foundry, Ltd., Toronto.
 Emil Drolet, La Campagnie, F. X., Drolet, Quebec, P. Q.
 O. W. Ellis, Ontario Research Foundation, Toronto.
 W. C. Fletcher, Canadian Car & Foundry Co., Ltd., Montreal.
 J. T. Hepburn, John T. Hepburn, Ltd., Toronto.
 J. S. Hoyt, T. McAvity & Sons, Ltd., St. John.
 A. C. Neal, Enamel & Heating Products, Ltd., Sackville, N. B.
 Frank A. Sherman, Dominion Foundries & Steel, Ltd., Hamilton, Ontario.
 A. G. Storie, Fittings, Ltd., Oshawa, Ontario.

grow and took an active part in its expansion. As a recognition of his accomplishments and the high regard in which he was held by the foundrymen of California, life membership was bestowed on him by the Northern California Chapter in 1936.

Many Plants Took Part In Apprentice Contest

OVER 100 foundries and over 400 regularly indentured apprentices took part in the annual National Apprentice contest sponsored by the American Foundrymen's Association. Many of those participating did not reach the final judging in Cleveland, but nearly 60 castings and patterns were judged by the committee for final awards in gray iron, steel and non-ferrous molding and pattern making.

As an indication of the widespread interest shown in apprenticeship and the contest, the following groups, educational in-

stitutions and individual plants participated:

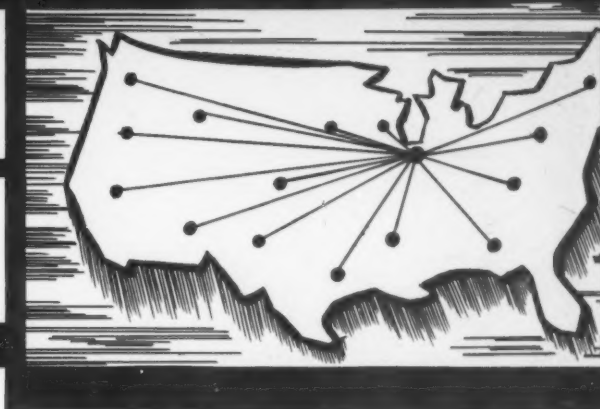
Groups—

Chicago Chapter, East Chicago Section.
 Detroit Chapter.
 Milwaukee Chapter.
 Northeastern Ohio Chapter.
 Quad City Chapter.
 St. Louis District Chapter.

Individual Plants—

American Manganese Steel Co., Chicago Heights, Ill.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Caterpillar Tractor Co., Peoria, Ill.
 Fairbanks, Morse & Co., Beloit, Wis.
 General Electric Co., West Lynn, Mass.
 Gisholt Machine Co., Madison, Wis.
 Educational Institutions:
 Crane Technical High School, Chicago.
 Williamson Free Trade School of Mechanical Trades, Delaware County, Pa.

Chapter Activities



Buffalo Chapter Closes Successful Season

By J. R. Wark,* Buffalo, N. Y.

A NNUAL election of officers was held at the June 20 meeting of the Buffalo Chapter in King Arthur's Restaurant, Buffalo. The meeting started with a dinner, after which Chairman T. H. Burke, Otis Elevator Co., opened the business meeting by presenting a slate of officers for the ensuing year, chosen by the nominating committee. The entire slate, as follows, was unanimously elected:

Chairman—M. W. Pohlman
Foundry Co., Inc.

Vice Chairman—W. J. Corbett, Atlas Steel Casting Co.

Treasurer—R. K. Glass Republic Steel Corp.

Secretary—J. R. Wark, Queen City Sand & Supply Co.

Directors—J. P. Begley, Pratt & Letchworth Co., Inc.

T. H. Burke, Otis Elevator Co.

A. Lockwood, Lumen Bearing Co.

V. Mazurie, Buffalo Foundry & Machine Co.

W. S. Miller, C. C. Kawin Co.

Lynn Reynolds, Worthington Pump & Machinery Corp.

R. Rycroft, Jewell Alloy & Malleable Co.

Following the election, Chairman Burke told of plans that were in the process for the Chapter's second regional conference at Cornell University, Ithaca, N. Y. The conference will be under the joint sponsorship of the Chapter, a group of foundrymen from upper New York and the University. Prof. A. C. Davis of the University, who so ably assisted with the conference last

year, was present and will again help to make the 1938 conference a success. Definite dates for the conference have not been set as yet but will be announced shortly. The committee in charge of arrangements for the conference

is as follows: H. B. Hanley, American Laundry Machinery Co., Rochester, N. Y.; H. H. Judson, Goulds Pumps, Inc., Seneca Falls, N. Y.; Prof. A. C. Davis; T. H. Burke, retiring Chapter chairman; J. R. Wark, Chapter secretary; R. K. Glass, Chapter treasurer; W. J. Corbett, newly elected Chapter vice chairman, and M. W. Pohlman, newly elected Chapter chairman.

Milwaukee Chapter Changes

Name to Wisconsin Chapter

By B. D. Claffey,* Waukesha, Wis.

AT THE June 17 meeting of the Milwaukee Chapter, the membership voted to change the name of the organization to Wisconsin Chapter. This move was made because it was thought that the name Wisconsin more closely indicated the scope of the membership and activities of the Chapter.

A feature of the program was the presentation of awards to local and national winners in the annual apprentice competition sponsored by the Chapter. The following were awarded prizes: **Gray Iron Molding**: First prize

to Frank Kusnik, Vilter Mfg. Co.; second prize to Sigmund Dembrowiak, Chain Belt Co.; third prize to Anthony Balkovich, Nordberg Mfg. Co. **Steel Molding**: First and second prizes to Arthur Adrian and Chester Reszka, respectively, Maynard Electric Steel Casting Co.; third prize to George Pearson, Bucyrus-Erie Co. **Non-ferrous Molding**: First prize to John Elko, Allis-Chalmers Mfg. Co.; second prize to Casimir Kotowicz, Ampco Metals, Inc. Mr. Kotowicz also won third prize in non-ferrous molding in the National apprentice contest. **Patternmaking**: First prize to Delmer Smith, C. B. Cottrell & Sons; second prize to Paul Gallun, Falk Corp.; third prize to Victor Markunas, Harnischfeger Corp.

New officers of the Chapter were installed at this meeting and Chairman Roy Jacobs, Standard Brass works, announced the appointment of committees for the 1938-39 season. These committees already are functioning on next year's activities.



B. D. Claffey

*Queen City Sand & Supply Co., and Secretary, Buffalo Chapter.

*General Malleable Corp., and Secretary, Wisconsin Chapter.

Chicago Chapter Holds Annual Meeting

By L. L. Henkel,* Chicago, Ill.

THE annual meeting of the Chicago Chapter was held June 13 in the Medinah Club of Chicago with Chairman H. W. Johnson, Greenlee Foundry Co., presiding. The first order was the reports of the various committees. The following committee chairmen reported: L. H. Rudesill, Griffin Wheel Co., program; J. J. Fox, Wisconsin Steel Co., lecture course; A. L. Armantrout, Carnegie-Illinois Steel Co., apprenticeship; J. D. Burlie, Western Electric Co., non-ferrous; J. H. Abbott, Hickman, Williams & Co., entertainment, and C. E. Westover, Burnside Steel Co., Rosenwald Museum exhibit. A. W. Gregg, Whiting Corp., chairman of the membership committee and also of the Junior Foundrymen's Advisory Committee, was absent and Chairman Johnson reported for him. In addition, the chairman reported on the progress being made toward the regional conference which the chapter is sponsoring at Purdue University, West Lafayette, Ind.

After the committee reports, the following officers were elected to take office immediately following the election:

Chairman—L. H. Rudesill, Griffin Wheel Co.

Vice Chairman—C. E. Westover, Burnside Steel Co.

Treasurer—C. C. Kawin, C. C. Kawin Co.

*Interlake Iron Corp., and Secretary, Chicago Chapter.

Secretary—L. L. Henkel, Interlake Iron Corp.

Directors for 3 Years—

J. J. Fox, Wisconsin Steel Co.

H. W. Johnson, Greenlee Foundry Co.

W. C. Parkard, National Engineering Co.

G. P. Phillips, International Harvester Co.

Directors for One Year to Fill Unexpired Terms—

H. Kenneth Briggs, Western Foundry Co.

A. W. Weston, Chicago

Northern California

Chapter Elects Officers

By G. L. Kennard,* San Francisco, Calif.

THE annual meeting of the Northern California Chapter was held in Hotel Whitcomb, San Francisco, June 10. Three speakers were on the program, but prior to the presentation of the technical talks, the election of officers who will lead the Chapter during the 1938-39 season, was held. The following members were elected to their respective offices:

Chairman—John D. Fenstermacher, Columbia Steel Co., San Francisco.

Vice Chairman—S. D. Russell, Phoenix Iron Work, Oakland.

Secretary-Treasurer — G. L. Kennard, San Francisco.

Directors for 2 Years:

J. K. Benedict, H. C. Donaldson & Co., San Francisco.

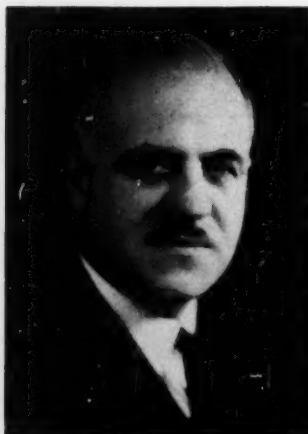
H. L. Martin, Vulcan Foundry Co., Oakland.

M. M. Morison, Balfour, Guthrie & Co., Ltd., San Francisco.

M. G. Wilson, Wilson & Nutwell, Fresno.

The speakers of the evening were Prof. W. M. Young, Stanford University; Harry Leas,

*Secretary-Treasurer, Northern California Chapter.



C. E. Westover



L. H. Rudesill



L. L. Henkel



C. C. Kawin

AMERICAN FOUNDRYMAN



S. D. Russell



John D. Fenstermacher



G. L. Kennard

Vulcan Foundry Co., Oakland, and A. W. Allen, San Francisco Stove Works, San Francisco. Professor Young was scheduled for a 15 minute talk on "High Strength Iron" which he delivered as to a university class. However, his subject proved to be more attractive than he had anticipated and it took him longer to answer questions than to

deliver his talk. Harry Leas and Arthur Allen both visited the Cleveland Convention and gave their impressions of the Foundry Show and the technical sessions. Mr. Allen had acted as delegate from the Northern California Chapter and had attended the Chapter conference. In his report, he gave a resume of the conference, particularly on what was being planned for the future.

which had made the first year a success.

Past Chairman Gregg, following the business meeting, then outlined E. L. Roth's paper, "Practical Job Evaluation for the Small Foundry," which was presented at the Cleveland Convention. The comments and questions which followed indicated that the information contained in the paper would be of value to foundry superintendents. J. E. Wilson, Climax Molybdenum Co., then outlined the paper by E. R. Young, V. A. Crosby and A. J. Herzig of his company on "Physical Properties of Cast Iron in Heavy Sections." His discussion of this paper was illustrated showing that it is possible to produce 70,000 lb. per sq. in. tensile strength cast iron even in heavy sections if the composition is properly adjusted.

Southern Californians Elect Coffman as Chairman

By L. O. Hofstetter,* Los Angeles, Calif.

J G. COFFMAN, Los Angeles • Steel Casting Co., Los Angeles, Calif., was elected chairman of the Southern California Chapter of A.F.A. at its annual meeting on June 23, at the Clark Hotel, Los Angeles. Mr. Coffman formerly was vice chairman of the Chapter. Other officers elected were as follows: Vice Chairman—Bert Oldfield, Alhambra Foundry Co., Alhambra; Secretary—M. S. Robb, Bethlehem Steel Co., Los Angeles; Treasurer—Chas. Gregg, Reliance Regulator Co., Alhambra; Directors for Two Years—William Feltes, Westlectric Castings, Inc., Los Angeles; S. R. Kimberly, Los Angeles Steel Castings Co., Los Angeles; D. E. Lingenfelter, Quality Foundry Co., Los Angeles; John E. Wilson, Climax Molybdenum Co., Los Angeles.

Following the announcement of the election, which was by letter ballot, Retiring Chairman Gregg presented the gavel to Chairman Coffman with the prediction that the second year of the Chapter would be more successful than the first and thanked the membership for the excellent cooperation and enthusiasm



J. G. Coffman

Radiography Committee

Recognizing that the use of x-rays and radium for inspection of important engineering structures has increased, A.S.T.M. has organized Committee E-7 on Radiographic Testing, for the purpose of placing the industrial use of radiography on a rational, common-sense basis.

C. W. Briggs, Naval Research Laboratory, Washington, D. C., and John Howe Hall, consultant on steel castings, Philadelphia, and chairman of the A.F.A. Steel Division, represent A.F.A. on this committee. Mr. Briggs is chairman of the steel castings committee of E-7.

*H. C. Donaldson & Co., and Secretary, Southern California Chapter.

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What is the Incidence of Silicosis in the Foundry Industry?



Dr. Leonard Greenburg's Paper

“Silicosis in the Foundry Industry”

Gives much valuable information on that question. The paper outlines the results of a survey conducted by the Division of Industrial Hygiene, New York State Department of Labor, of which the author is executive director. It records the results of examination of over 4,000 men employed in the foundries in New York State. This total represents more than one-third of the total employed in one-third the total foundries distributed according to the size of the foundry. A convincing argument that the silicosis danger in foundries has been overemphasized.

Price 25c per copy